Gridpack/LHE production @ IIHE: SM EW SM Electroweak

	Gridpack	LHE files
$Z \rightarrow II \text{ (mass 10-50)} + 0 \text{ jets}$	ok	100k
$Z \rightarrow II \text{ (mass 10-50)} + 1 \text{ jets}$	ok	100k
$Z \rightarrow II \text{ (mass 10-50)} + 2 \text{ jets}$	ok	100k
$Z \rightarrow II \text{ (mass 10-50)} + 3 \text{ jets}$	ok	25k (*)
$Z \rightarrow II \text{ (mass 10-50)} + 4 \text{ jets}$	ok	10k (*)
$W \rightarrow Iv + 0$ jets	(ok)	50M
$W \rightarrow Iv + 1 jets$	(ok)	>50M
$W \rightarrow Iv + 2 jets$	(ok)	50.3M
$W \rightarrow Iv + 3 jets$	(ok)	>50M
$W \rightarrow Iv + 4 jets$	(ok)	some jobs end up with < 100k events Did Strasbourg investigate this?

- (*) Note: problems with 100k evts/job (see last week), no problems when reducing #evts/job → 3jets: still cautious for intrinsic problem
- Tried Eric's solution for Z → II + 3jets (quarks & gluons separately)
 → same problem...

Gridpack/LHE production @ IIHE: Higgs Higgs samples

	Gridpack	LHE files
TT (dilep) + Higgs \rightarrow X	ok (**)	To be started
TT (semilep) +Higgs \rightarrow X	ok (**)	To be started
Higgs → X	ok	$\begin{array}{l} H \rightarrow \mbox{photons: 100k} \\ H \rightarrow \mbox{bb: <260k (some jobs didn't achieve the expected 100k evts)} \\ H \rightarrow \mbox{WW: 800k} \\ H \rightarrow \mbox{ZZ: 100k} \\ H \rightarrow \mbox{gg: 200k} \end{array}$

 (**) TT+H gridpacks unfeasable with full HEFT model and up to 2 additional jets (running time)

→ now succeeded by using a 'massless' version of the HEFT model (see Gregory's mail) + up to 1 additional jet (instead of 2) ok?

Gridpack/LHE production @ IIHE: FCNC signal

TT signal samples

 e.g. full AnoTopCouplingsFull-kappa_hct_ProdConventions model unfeasible with up to 3 jets (running time)

→ tried up to 2 jets, but Madevent crash during generate_events ('Error: Failed despite same graph') Being investigated...

→ using 'massless' version of model decreases running time by factor >20: up to 3 jets becomes feasible Test currently running...

- In the meantime tested *Madspin* with up to 1 jet
 - → failed for AnoTopCouplingsFull-kappa_hct_ProdConventions_massless

MadGraph5Error : decay (6,) not define

with or without t > c h in madspin card Seems to occur during width calculation